

**POWER OF ATTORNEY**

The undersigned hereby revokes all prior powers of attorney and appoints all attorneys associated with Customer Number 33717 as attorneys and/or patent agents with the power to represent the Assignee in connection with each of the issued patents and patent applications listed in the attached **Schedule A**.

**CERTIFICATE UNDER 37 C.F.R. § 3.73(b)**

**Treble Investments Limited Liability Company**, a Delaware limited liability company, having a place of business at 1209 Orange Street, Wilmington, Delaware 19801, certifies that it is the assignee of the entire right, title, and interest in the patents and patent applications identified in the attached **Schedule A** by virtue of recorded assignments or other documents in the chains of title (**Reel/Frame Number 019974/0087 and Reel/Frame Number 020079/0058**).

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee **Treble Investments Limited Liability Company**.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Please direct all correspondence to:

Customer Number 33717  
Attn: IP Docketing Dept.  
GREENBERG TRAURIG, LLP  
2450 Colorado Avenue, Suite 400E  
Santa Monica, CA 90404  
Tel: (602) 445-8339  
Fax: (602) 445-8100

**TREBLE INVESTMENTS LIMITED LIABILITY COMPANY**

Date: 19 Nov. 2007

By: 

Name: Melissa Coleman

Title: Authorized Person

**Schedule A**

Patent or Application No.	Country	Filing Date	Title and Inventor(s)
60/104,422	US	October 15, 1998	METHOD FOR REMOVING MOTION ARTIFACTS FROM DEVICES FOR SENSING BODILY PARAMETERS AND APPARATUS FOR EFFECTING SAME
60/006,481	US	November 13, 1995	ON-LINE ESCROW MANAGEMENT NETWORK
60/104,440	US	October 15, 1998	REDUNDANCY OF BROADBAND MULTI-CARRIER WIRELESS BASE STATION EQUIPMENT USING AN OMNIDIRECTIONAL OVERLAY ON A TRI-SECTORED WIRELESS SYSTEM
60/094,658	US	July 30, 1998	BROADBAND POWER MANAGEMENT (POWER BANKING) WITHIN A BROADBAND MULTI-CARRIER BASE STATION TRANSCEIVER SYSTEM
60/094,660	US	July 30, 1998	METHOD AND APPARATUS TO REDUCE SPURIOUS AND INTERMODULATION PRODUCTS IN BROADBAND MULTI-CARRIER DIGITAL TRANSCEIVER EQUIPMENT THROUGH STATIC NON-LINEARITY CORRECTION OF DIGITAL CONVERSION COMPONENTS
60/094,661	US	July 30, 1998	IMPROVED FREQUENCY RE-USE IN WIRELESS SYSTEM PLANNING FOR COMMUNICATIONS SYSTEMS USING WIRELESS TRANSLATING REPEATERS

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Patent or Application No.	Country	Filing Date	Title and Inventor(s)
60/079,796	US	March 30, 1998	METHOD AND APPARATUS EMPLOYING AUTOMATIC RF MUTING AND WIRELESS REMOTE CONTROL OF RF DOWNLINK TRANSMISSION FOR A WIRELESS REPEATER
60/104,441	US	October 15, 1998	WIRELESS BASE STATION DYNAMIC RF CARRIER ALLOCATION
60/129,320	US	April 14, 1999	DYNAMIC OVERFLOW PROTECTION FOR FINITE DIGITAL WORD-LENGTH MULTI-CARRIER TRANSMITTER COMMUNICATIONS EQUIPMENT
60/147,988	US	August 10, 1999	TRANSLATING REPEATER FOR WIRELESS COMMUNICATIONS SYSTEM
60/173,546	US	December 29, 1999	AUTOMATED CONFIGURATION OF BACKHAUL AND GROUND LINK FREQUENCIES IN A WIRELESS REPEATER
60/173,445	US	December 29, 1999	BACKHAUL LINK DIAGNOSTIC SYSTEM IN A WIRELESS REPEATER
60/173,443	US	December 29, 1999	BACKHAUL POWER CONTROL SYSTEM IN A WIRELESS REPEATER
60/173,541	US	December 29, 1999	DISCRETE BACKHAUL POWER TRANSMISSION FROM A TRANSLATING REPEATER TO INDICATE UPLINK MOBILE RECEIVE LEVEL
09/749,210 7,020,436	US	December 27, 2000 March 28, 2006	DISCRETE POWER LEVEL CODING FOR INDICATING UPLINK MOBILE RECEIVE LEVEL IN A WIRELESS REPEATER SYSTEM

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Patent or Application No.	Country	Filing Date	Title and Inventor(s)
60/175,351	US	January 10, 2000	EQUALIZATION IN TRANSMIT AND RECEIVE LEVELS IN A BROADBAND TRANSCEIVER SYSTEM
60/175,350	US	January 10, 2000	PACKET BASED BACKHAUL CHANNEL CONFIGURATION FOR A WIRELESS REPEATER
10/074,514 7,092,714	US	February 12, 2002 August 15, 2006	METHOD FOR IMPROVING RF SPECTRUM EFFICIENCY WITH REPEATER BACKHAULS
10/659,695	US	September 10, 2003	SOFTWARE MANAGEMENT FOR SOFTWARE DEFINED RADIO IN A DISTRIBUTED NETWORK
11/772,487	US	July 2, 2007	SOFTWARE MANAGEMENT FOR SOFTWARE DEFINED RADIO IN A DISTRIBUTED NETWORK
10/837,771	US	May 3, 2004	MANAGED OBJECT MEMBER ARCHITECTURE FOR SOFTWARE DEFINED RADIO
10/980,044	US	November 3, 2004	SUPPORTING WIRELESS COMMUNICATION INTEROPERABILITY COMPATIBILITY WITH EXISTING COMMUNICATIONS INFRASTRUCTURE
11/288,712	US	November 29, 2005	MOBILE STATION HANDOVER FOR BASE STATIONS WITH ADAPTIVE ANTENNA SYSTEM
11/329,607	US	January 11, 2006	CO-CHANNEL HANDOVER IN A CELLULAR NETWORK
11/333,193	US	January 17, 2006	METHOD TO CALIBRATE RF PATHS OF AN FHOP ADAPTIVE BASE STATION
11/344,890	US	February 1, 2006	DISTRIBUTED BASE STATION CONTROLLER
08/146,364 5,535,240	US	October 29, 1993 July 9, 1996	TRANSCEIVER APPARATUS EMPLOYING WIDEBAND FFT CHANNELIZER AND INVERSE FFT COMBINER FOR MULTICHANNEL COMMUNICATION NETWORK

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Patent or Application No.	Country	Filing Date	Title and Inventor(s)
08/665,648 5,848,097	US	June 18, 1996 December 8, 1998	TRANSCEIVER APPARATUS EMPLOYING WIDEBAND FFT CHANNELIZER AND INVERSE FFT COMBINER FOR A MULTICHANNEL COMMUNICATION NETWORK
08/231,262 5,590,156	US	April 22, 1994 December 31, 1996	MULTICHANNEL WIDEBAND DIGITAL RECEIVER MAKING USE OF MULTIPLE WIDEBAND TUNERS HAVING INDIVIDUALLY SELECTABLE GAINS TO EXTEND OVERALL SYSTEM DYNAMIC RANGE
08/739,862 5,697,059	US	October 31, 1996 December 9, 1997	SYSTEM FOR DYNAMICALLY ALLOCATING CHANNELS AMONG BASE STATIONS IN A WIRELESS COMMUNICATION SYSTEM
08/224,754 5,537,435	US	April 8, 1994 July 16, 1996	TRANSCEIVER APPARATUS EMPLOYING WIDEBAND FFT CHANNELIZER WITH OUTPUT SAMPLE TIMING ADJUSTMENT AND INVERSE FFT COMBINER FOR MULTICHANNEL COMMUNICATION NETWORK
08/725,583 6,011,785	US	October 30, 1996 January 4, 2000	WIDEBAND WIRELESS BASE- STATION MAKING USE OF TIME DIVISION MULTIPLE- ACCESS BUS TO EFFECT SWITCHABLE CONNECTIONS TO MODULATOR/DEMULATOR RESOURCES
08/331,773 5,585,850	US	October 31, 1994 December 17, 1996	ADAPTIVE DISTRIBUTION SYSTEM FOR TRANSMITTING WIDEBAND VIDEO DATA
08/331,778 5,838,732	US	October 31, 1994 November 17, 1998	REDUCING PEAK-TO- AVERAGE VARIANCE OF A COMPOSITE TRANSMITTED SIGNAL GENERATED BY A DIGITAL COMBINER VIA CARRIER PHASE OFFSET

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Patent or Application No.	Country	Filing Date	Title and Inventor(s)
08/270,246 5,490,172	US	July 5, 1994 February 6, 1996	REDUCING PEAK-TO-AVERAGE VARIANCE OF A COMPOSITE TRANSMITTED SIGNAL VIA OUT-OF-BAND ARTIFACT SIGNALING
08/708,690 5,926,747	US	September 5, 1996 July 20, 1999	METHOD AND APPARATUS FOR DYNAMICALLY OPTIMIZING THE FORWARD-LINK TRANSMIT POWER OF A BROADBAND MULTI-CARRIER RADIO SIGNAL
08/331,455 5,649,292	US	October 31, 1994 July 15, 1997	OBTAINING IMPROVED FREQUENCY REUSE IN WIRELESS COMMUNICATIONS SYSTEMS
08/408,665 5,577,031	US	March 22, 1995 November 19, 1996	WIDEBAND CHANNELIZER INCORPORATING DIVERSITY SWITCH
09/418,629 6,230,026	US	October 15, 1999 May 8, 2001	BASESTATION ARCHITECTURE SUPPORTING BASEBAND FREQUENCY HOPPING UTILIZING TIME DIVISION MULTIPLEXED MAPPING BETWEEN A RADIO TRANSCEIVER AND DIGITAL SIGNAL PROCESSING RESOURCES
09/789,023 6,952,408	US	February 20, 2001 October 4, 2005	METHOD OF BASEBAND FREQUENCY HOPPING UTILIZING TIME DIVISION MULTIPLEXED MAPPING BETWEEN A RADIO TRANSCEIVER AND DIGITAL SIGNAL PROCESSING RESOURCES
08/595,106 5,606,575	US	February 1, 1996 February 25, 1997	FFT-BASED CHANNELIZER AND COMBINER EMPLOYING RESIDUE-ADDER-IMPLEMENTED PHASE ADVANCE
08/547,613 5,717,620	US	October 24, 1995 February 10, 1998	IMPROVED-ACCURACY FAST-FOURIER-TRANSFORM BUTTERFLY CIRCUIT

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Patent or Application No.	Country	Filing Date	Title and Inventor(s)
08/532,952 5,758,090	US	September 22, 1995 May 26, 1998	FREQUENCY REUSE PLANNING CDMA CELLULAR COMMUNICATION SYSTEM BY GROUPING OF AVAILABLE CARRIER FREQUENCIES AND POWER CONTROL BASED ON THE DISTANCE FROM BASE STATION
08/932,793 6,134,229	US	September 5, 1997 October 17, 2000	MULTICHANNEL BROADBAND TRANSCEIVER SYSTEM MAKING USE OF A DISTRIBUTED CONTROL ARCHITECTURE FOR DIGITAL SIGNAL PROCESSOR ARRAY
08/614,501 5,930,308	US	February 1, 1996 July 27, 1999	METHOD AND APPARATUS FOR DETECTING SIGNALING TONES IN WIDE-BAND DIGITIZED CELLULAR- TELEPHONE SIGNALS
08/540,009 5,832,364	US	October 6, 1995 November 3, 1998	DISTRIBUTING WIRELESS SYSTEM CARRIER SIGNALS WITHIN A BUILDING USING EXISTING POWER LINE WIRING
08/402,585 5,592,480	US	March 13, 1995 January 7, 1997	WIDEBAND WIRELESS BASESTATION MAKING USE OF TIME DIVISION MULTIPLE- ACCESS BUS HAVING SELECTABLE NUMBER OF TIME SLOTS AND FRAME SYNCHRONIZATION TO SUPPORT DIFFERENT MODULATION STANDARDS
08/740,153 5,940,384	US	October 28, 1996 August 17, 1999	WIDEBAND WIRELESS BASE STATION MAKING USE OF TIME DIVISION MULTIPLE ACCESS BUS HAVING SELECTABLE NUMBER OF TIME SLOTS AND FRAME SYNCHRONIZATION TO SUPPORT DIFFERENT MODULATION STANDARDS

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Patent or Application No.	Country	Filing Date	Title and Inventor(s)
08/605,256 5,924,036	US	February 13, 1996 July 13, 1999	CODE-DIVISION MULTIPLE- ACCESS CELLULAR SYSTEM EMPLOYING OVERLAID CELLS
08/532,427 5,578,953	US	September 22, 1995 November 26, 1996	SELF-RESETTING STATUS REGISTER
08/542,720 5,835,859	US	October 13, 1995 November 10, 1998	METHOD FOR FREQUENCY ALLOCATION AND ASSIGNMENT IN WIRELESS COMMUNICATION SYSTEMS
08/462,016 5,657,487	US	June 5, 1995 August 12, 1997	MOBILE TELEPHONE LOCATION PROCESS MAKING USE OF HANDOFF DATA
08/768,213 5,953,668	US	December 17, 1996 September 14, 1999	RADIO CHANNEL MANAGEMENT FUNCTIONALITY DISTRIBUTION IN WIRELESS COMMUNICATION SYSTEM
08/622,550 6,088,592	US	March 25, 1996 July 11, 2000	WIRELESS SYSTEM PLAN USING IN BAND- TRANSLATORS WITH DIVERSITY BACKHAUL TO ENABLE EFFICIENT DEPLOYMENT OF HIGH CAPACITY BASE TRANSCIVER SYSTEMS
08/749,600 5,974,323	US	September 13, 1996 October 26, 1999	FREQUENCY PLAN FOR WIRELESS COMMUNICATION SYSTEM THAT ACCOMMODATES DEMAND GROWTH TO HIGH EFFICIENCY REUSE FACTORS
09/112,149 6,253,094	US	July 9, 1998 June 26, 2001	SECTORIZED CELL HAVING NON-REDUNDANT BROADBAND PROCESSING UNIT
08/607,588 5,970,410	US	February 27, 1996 October 19, 1999	CELLULAR SYSTEM PLAN USING IN BAND- TRANSLATORS TO ENABLE EFFICIENT DEPLOYMENT OF HIGH CAPACITY BASE TRANSCIVER SYSTEMS



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Patent or Application No.	Country	Filing Date	Title and Inventor(s)
08/622,060 5,937,011	US	March 26, 1996 August 10, 1999	MULTI-CARRIER HIGH POWER AMPLIFIER USING DIGITAL PRE-DISTORTION
08/670,372 5,956,645	US	June 25, 1996 September 21, 1999	MOBILITY MESSAGING USING UNNUMBERED INFORMATION FRAMES
08/770,871 5,894,497	US	December 20, 1996 April 13, 1999	REDUCING SPURIOUS MODULATION PRODUCTS IN BROADBAND MULTICARRIER TRANSMISSION BY COHERENT SUMMATION OF THE OUTPUTS OF DISSIMILAR DIGITAL-TO ANALOG DEVICE TYPES
08/743,451 5,901,355	US	November 1, 1996 May 4, 1999	METHOD USING DIFFERENT FREQUENCIES AND ANTENNA TYPES FOR REMOTES LOCATED IN AN INNER OR OUTER REGION OF A CELL
08/774,568 5,970,406	US	December 31, 1996 October 19, 1999	TRANSLATOR FOR TIME DIVISION MULTIPLE ACCESS WIRELESS SYSTEM HAVING SELECTIVE DIVERSITY CIRCUITS
08/772,181 5,953,637	US	December 20, 1996 September 14, 1999	TIME SLOT RECOVERY FOR REMOTE IN-BAND TRANSLATOR IN TIME DIVISION MULTIPLE ACCESS WIRELESS SYSTEM
09/198,808 6,487,187	US	November 24, 1998 November 26, 2002	RANDOM ACCESS CONTROL CHANNEL GAIN CONTROL AND TIME SLOT RECOVERY FOR REMOTE IN-BAND TRANSLATOR IN TIME DIVISION MULTIPLE ACCESS WIRELESS SYSTEM

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Patent or Application No.	Country	Filing Date	Title and Inventor(s)
09/198,485 6,088,570	US	November 24, 1998 July 11, 2000	METHOD AND APPARATUS EMPLOYING DELAY ELEMENTS IN MULTIPLE DIVERSITY PATHS OF A WIRELESS SYSTEM REPEATER TRANSLATOR TO ALLOW FOR SELECTIVE DIVERSITY AND AUTOMATIC LEVEL CONTROL IN A TIME-DIVISION MULTIPLE ACCESS
09/417,589 6,161,024	US	October 14, 1999 December 12, 2000	REDUNDANT BROADBAND MULTI-CARRIER BASE STATION FOR WIRELESS COMMUNICATIONS USING OMNI-DIRECTIONAL OVERLAY ON A TRI-SECTORED WIRELESS SYSTEM
09/363,846 6,477,388	US	July 30, 1999 November 5, 2002	BROADBAND POWER MANAGEMENT (POWER BANKING) WITHIN A BROADBAND MULTI-CARRIER BASE STATION TRANSCEIVER SYSTEM
09/363,845 6,463,093	US	July 30, 1999 October 8, 2002	METHOD AND APPARATUS TO REDUCE SPURIOUS AND INTERMODULATION PRODUCTS IN BROADBAND MULTI-CARRIER DIGITAL TRANSCEIVER EQUIPMENT THROUGH STATIC NON-LINEARITY CORRECTION OF DIGITAL CONVERSION COMPONENTS
09/362,867 6,370,384	US	July 29, 1999 April 9, 2002	IMPROVED FREQUENCY RE-USE PLANNING FOR WIRELESS COMMUNICATIONS SYSTEM USING WIRELESS TRANSLATING REPEATERS

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Patent or Application No.	Country	Filing Date	Title and Inventor(s)
09/280,543 6,253,060	US	March 30, 1999 June 26, 2001	METHOD AND APPARATUS TO PROVIDE END-TO-END TESTING OF A WIRELESS SYSTEM REPEATER EMPLOYING WIRELESS REMOTE LOOPBACK CAPABILITY
09/280,542 6,339,694	US	March 30, 1999 January 15, 2002	METHOD AND APPARATUS EMPLOYING AUTOMATIC RF MUTING AND WIRELESS REMOTE CONTROL OF RF DOWNLINK TRANSMISSION FOR A WIRELESS REPEATER
09/397,921 6,690,662	US	September 17, 1999 February 10, 2004	METHOD AND APPARATUS EMPLOYING WIRELESS IN-BAND SIGNALING FOR DOWNLINK TRANSMISSION OF COMMANDS AND UPLINK TRANSMISSION OF STATUS FOR A WIRELESS SYSTEM REPEATER
09/418,631 6,370,386	US	October 15, 1999 April 9, 2002	METHOD FOR DYNAMIC ALLOCATION OF WIRELESS BASE STATION DSP RESOURCES WITH INTEGRATED RATE CONVERTERS
09/418,628 6,970,709	US	October 15, 1999 November 29, 2005	METHOD FOR DYNAMIC ALLOCATION OF WIRELESS BASE STATION DSP RESOURCES
09/418,630 6,219,562	US	October 15, 1999 April 17, 2001	BROADBAND BASE STATION ARCHITECTURE FOR ADVANCED RESOURCE MANAGEMENT
09/419,188 6,574,476	US	October 15, 1999 June 3, 2003	DYNAMIC ALLOCATION OF CARRIER FREQUENCIES IN A WIRELESS BROADBAND BASE STATION

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09/549,812 6,262,981	US	April 14, 2000 July 17, 2001	DYNAMIC OVERFLOW PROTECTION FOR FINITE DIGITAL WORD-LENGTH MULTI-CARRIER TRANSMITTER COMMUNICATIONS EQUIPMENT
09/636,344 6,370,185	US	August 10, 2000 April 9, 2002	TRANSLATING REPEATER SYSTEM WITH IMPROVED BACKHAUL EFFICIENCY
09/747,672 6,718,160	US	December 22, 2000 April 6, 2004	AUTOMATIC CONFIGURATION OF BACKHAUL AND GROUNDLINK FREQUENCIES IN A WIRELESS REPEATER
09/736,031 6,748,212	US	December 13, 2000 June 8, 2004	METHOD AND APPARATUS FOR BACKHAUL LINK DIAGNOSTIC IN A WIRELESS REPEATER SYSTEM
09/726,874 6,687,509	US	November 30, 2000 February 3, 2004	BACKHAUL POWER CONTROL SYSTEM IN A WIRELESS REPEATER
09/755,497 7,047,042	US	January 5, 2001 May 16, 2006	METHOD AND APPARATUS FOR EQUALIZATION IN TRANSMIT AND RECEIVE LEVELS IN A BROADBAND TRANSCEIVER SYSTEM
09/755,752 6,957,042	US	January 5, 2001 October 18, 2005	PACKET BASED BACKHAUL CHANNEL CONFIGURATION FOR A WIRELESS REPEATER
10/074,514 7,092,714	US	February 12, 2002 August 15, 2006	METHOD FOR IMPROVING RF SPECTRUM EFFICIENCY WITH REPEATER BACKHAULS